

ABSTRACT OF THE DISCLOSURE

TMS
A15

5 A magnetic bearing device comprises a pair of
electromagnets holding a rotary body at opposite sides
thereof in the direction of each of control axes, a
detector for detecting the position of the rotary body,
and an electromagnet controller having an integral
operation unit for controlling the electromagnets based
on the result of detection of the position. The
electromagnet controller sets as a target levitated
10 position of the rotary body the position of the rotary
body corresponding to the median of an integral output
of the integral operation unit when the rotary body is
magnetically levitated in the vicinity of one of limit
positions in the direction of the control axis
15 determined by protective bearings and an integral output
of the unit when the rotary body is magnetically
levitated in the vicinity of the other limit position.

09759154 011604